

Figure 1

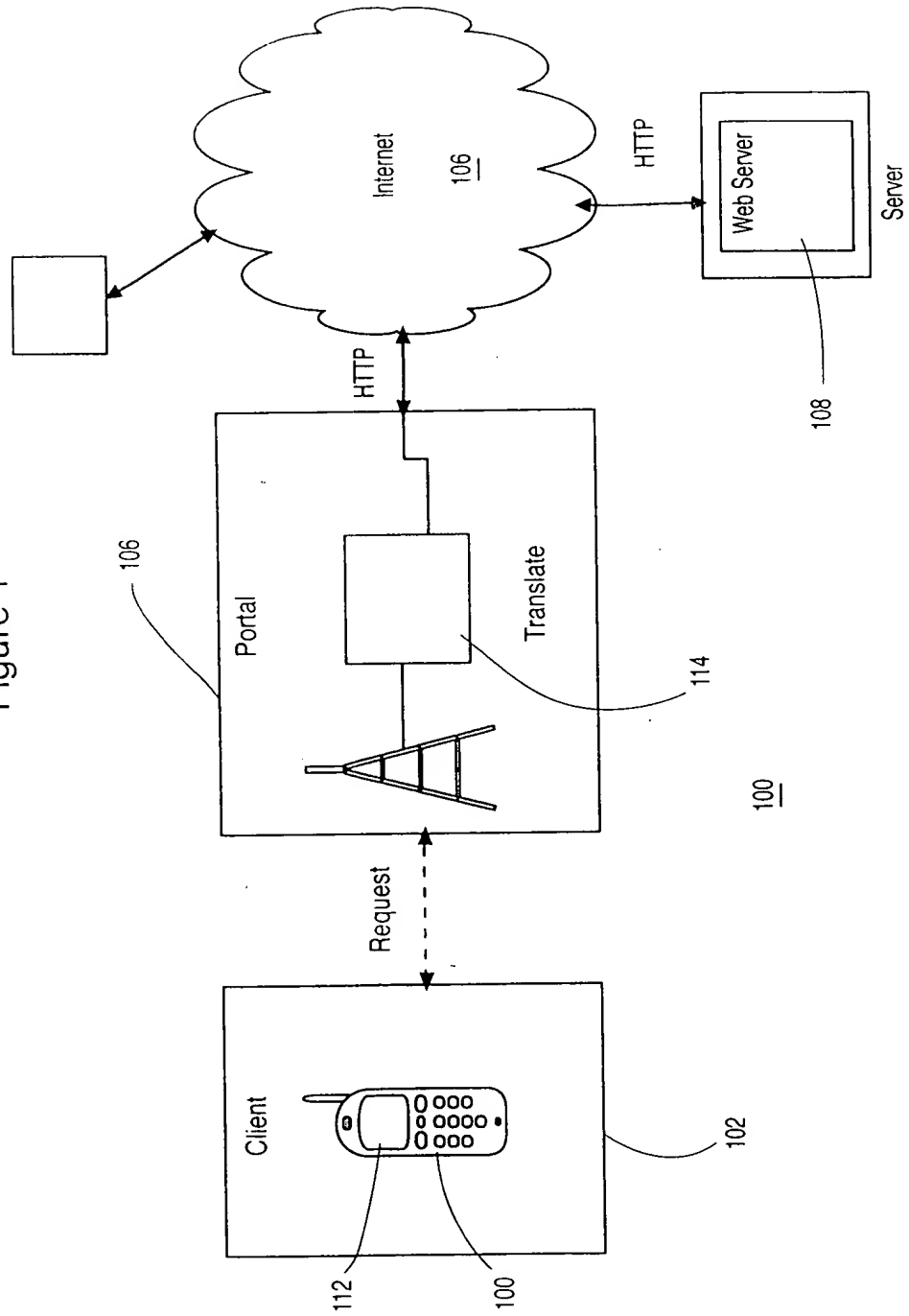


Figure 2

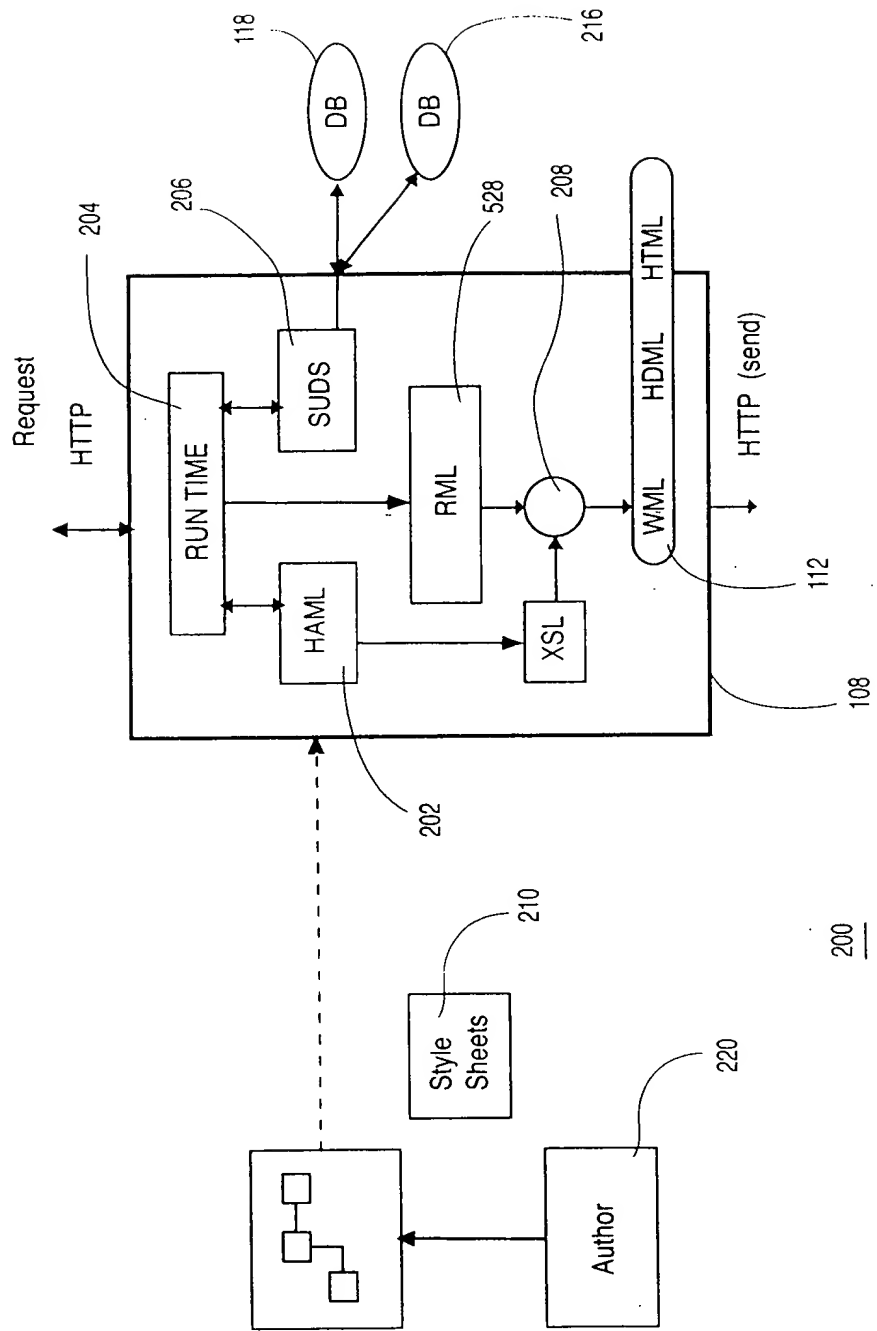
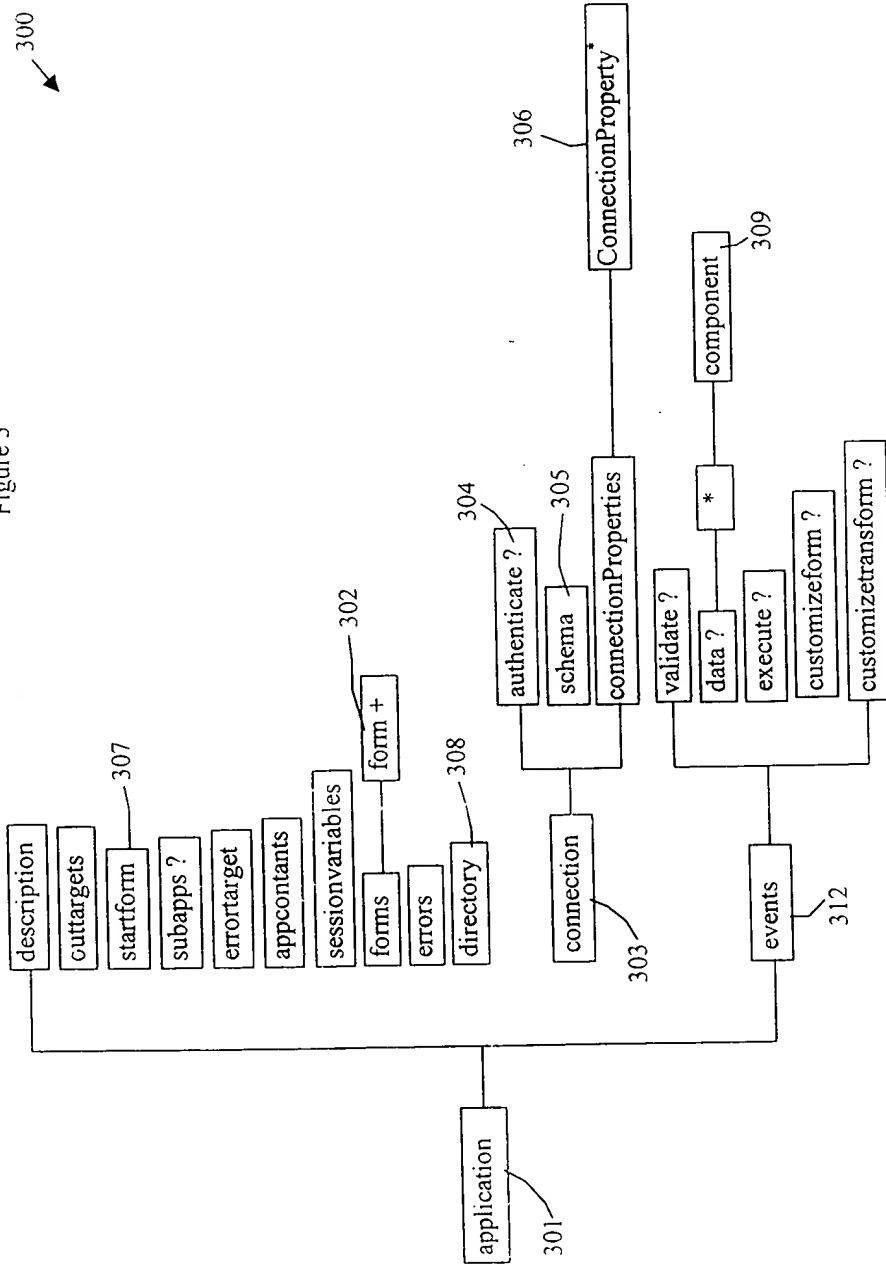


Figure 3



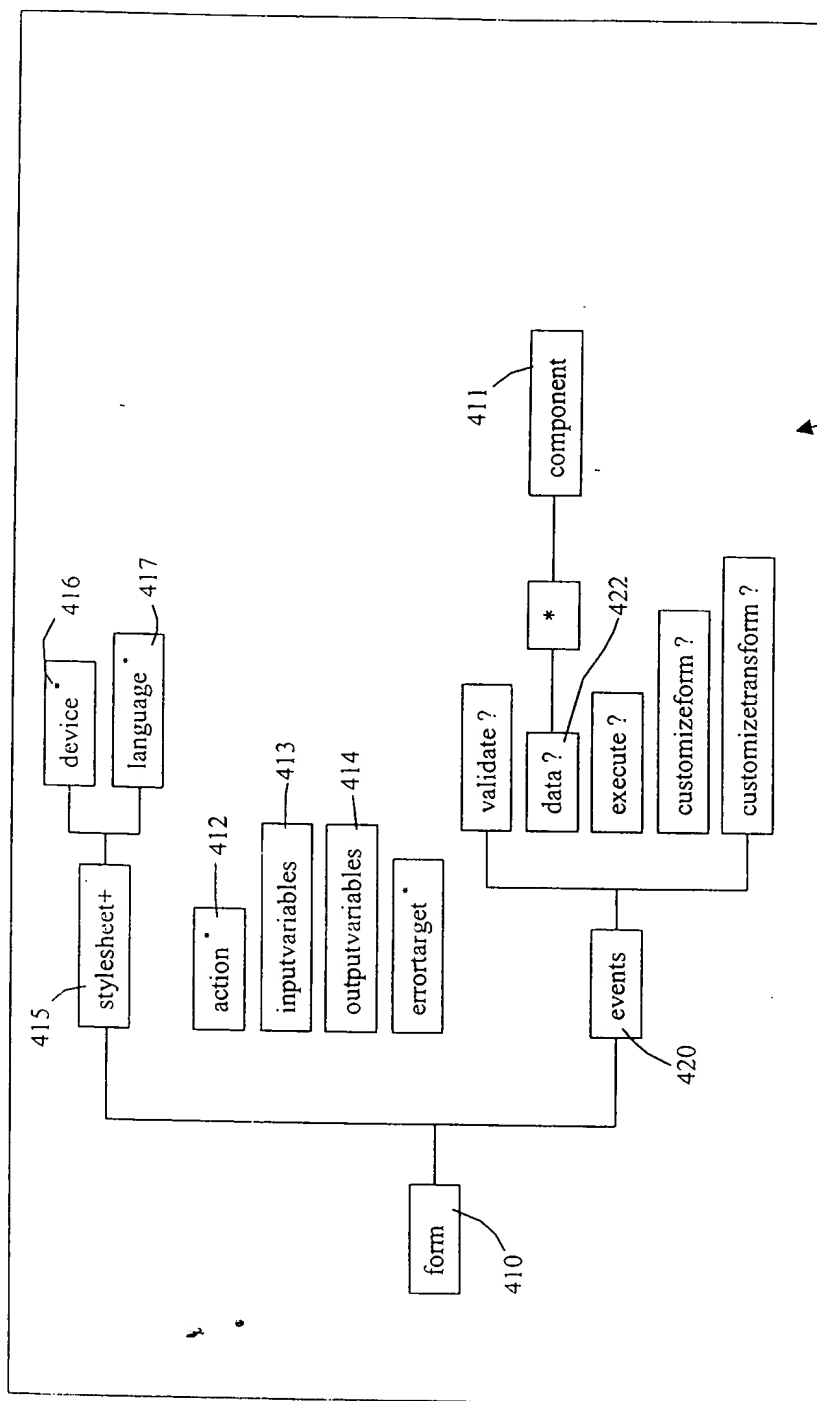


Figure 4



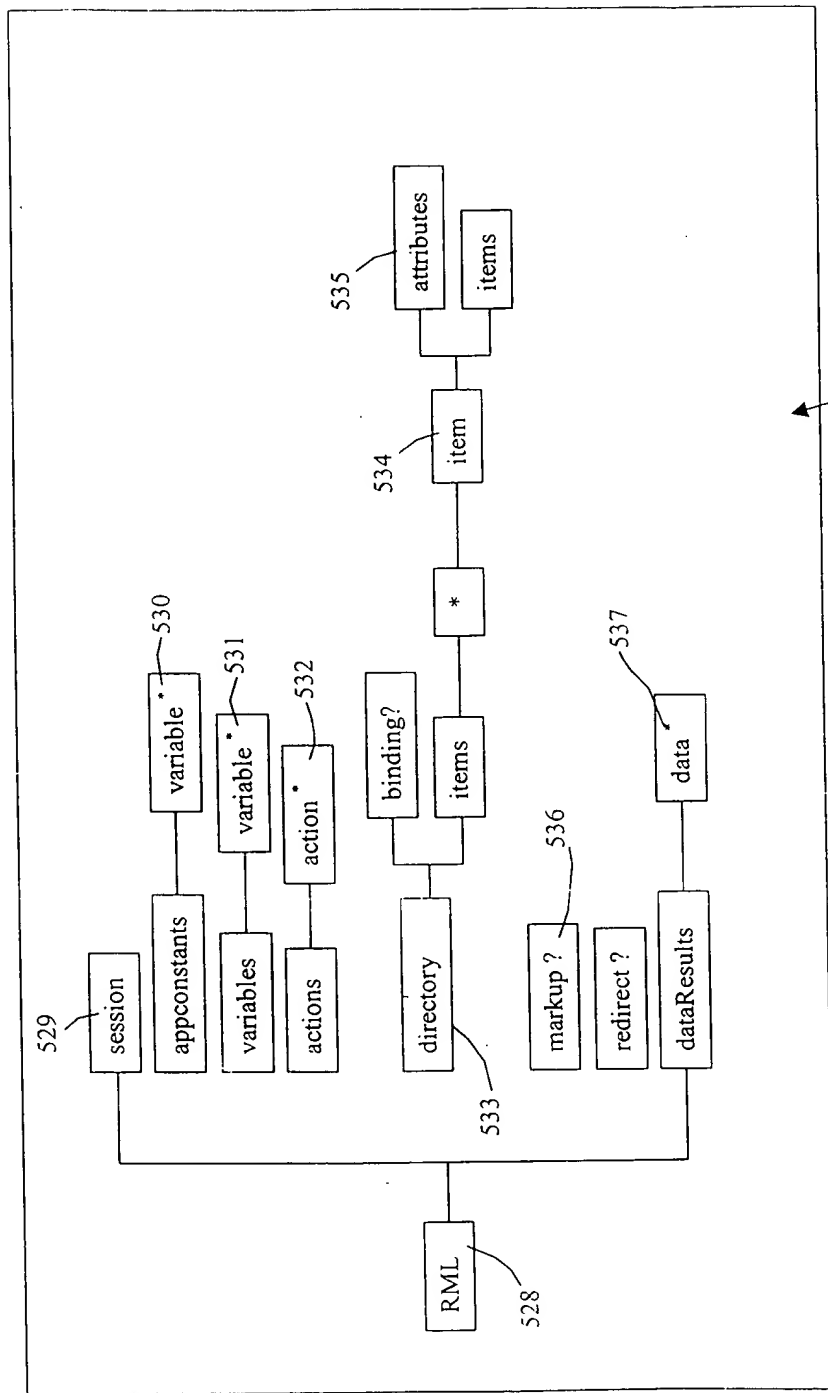


Figure 5

Figure 6

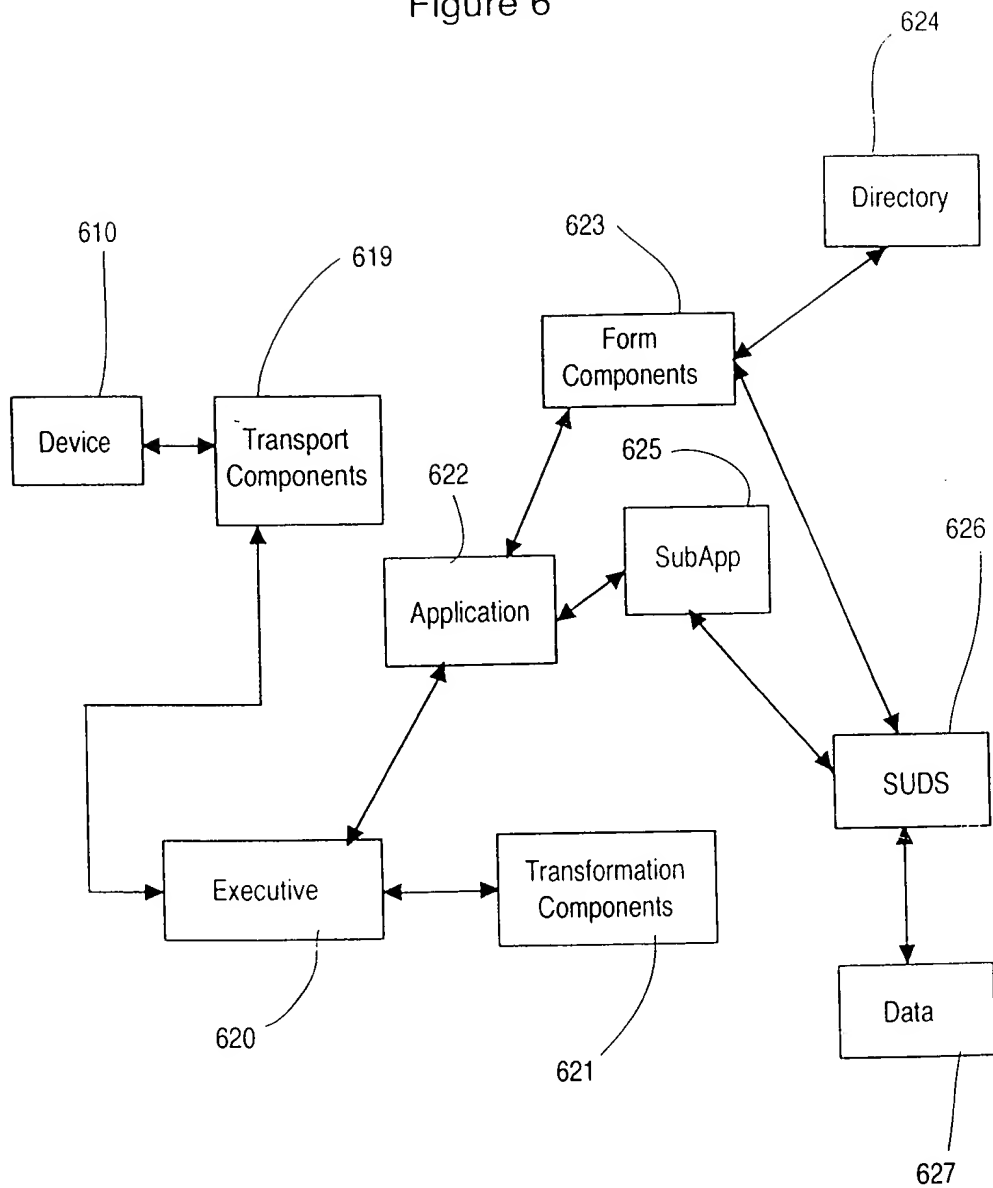


Figure 7

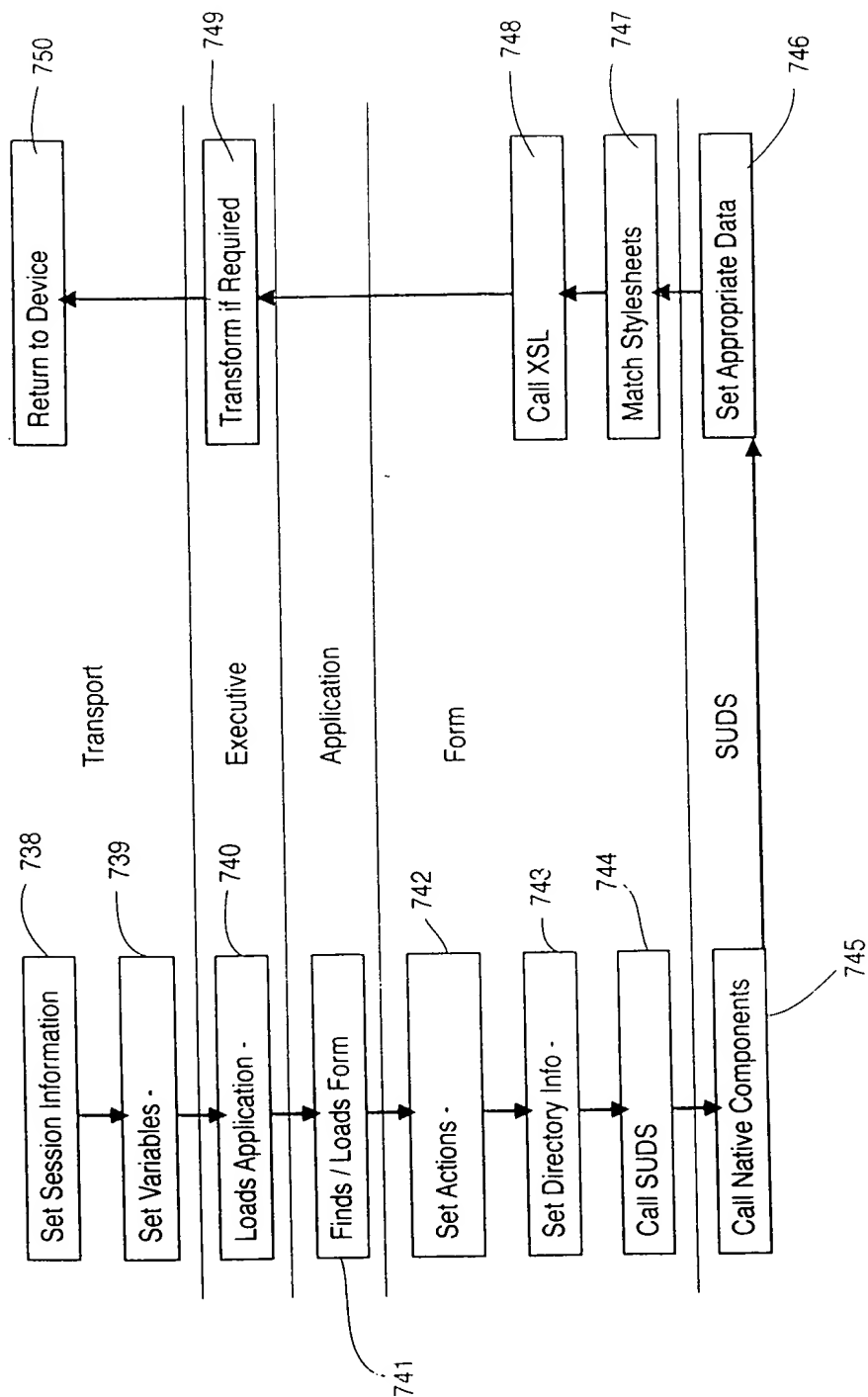
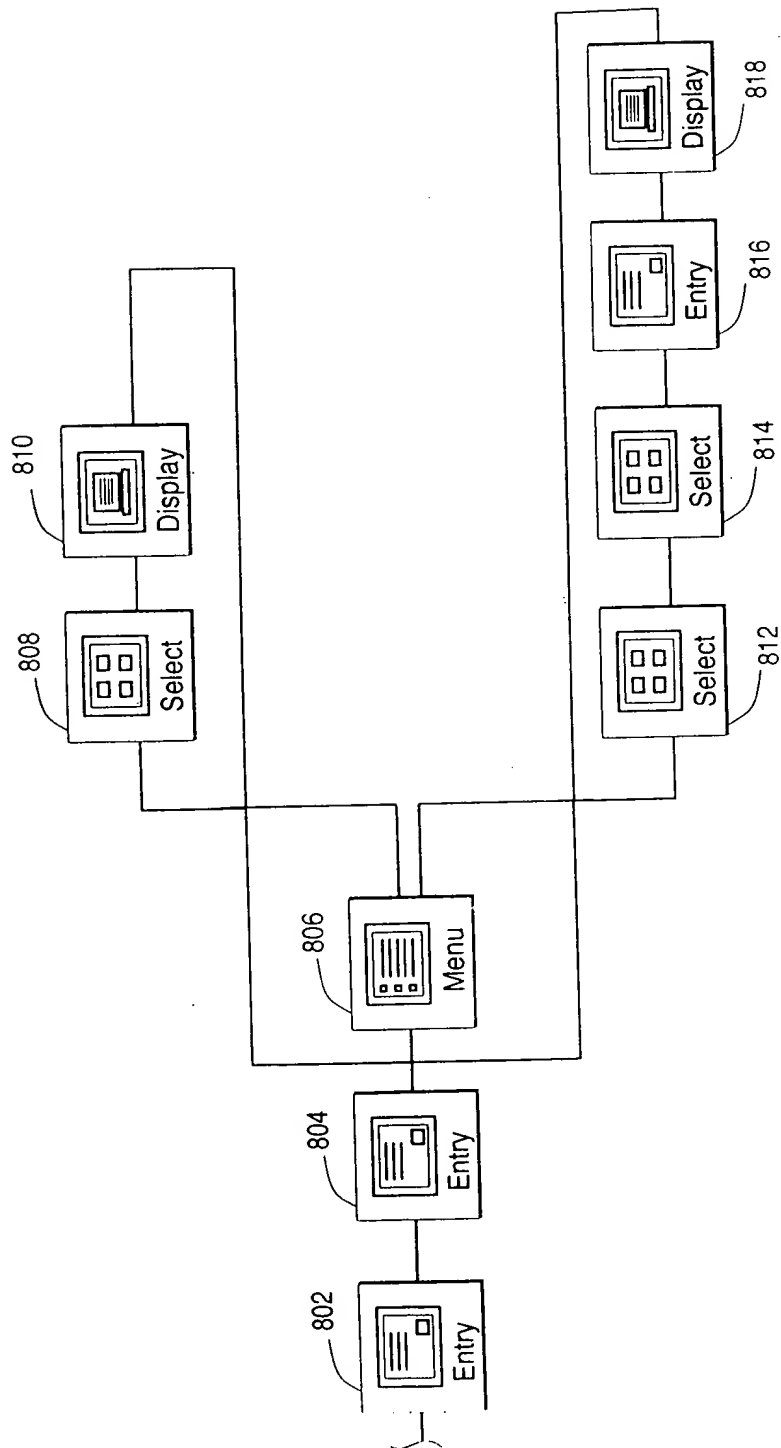


Figure 8 (a)









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```
<xml?>
<dataresults>
  <data name="source1">
    <RECORDS>
      <RECORD>
        <Blair PK="1">172-32-1176</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>White</LastName>
        <FirstName>Johnson</FirstName>
      </RECORD>
      <RECORD>
        <Blair PK="1">213-46-891</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>Green</LastName>
        <FirstName>Marjorie</FirstName>
      </RECORD>
      <RECORD>
        <Blair PK="1">238-95-7766</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>Carson</LastName>
        <FirstName>Cheryl</FirstName>
      </RECORD>
    </a>
    <RECORD>
      <Blair PK="1">238-95-7766</Blair>
      <Test1 PK="1">1</Test1>
      <Test2 PK="1">2</Test2>
      <Test3 PK="1">3</Test3>
      <LastName>Carson</LastName>
      <FirstName>Cheryl</FirstName>
    </RECORD>
  </a>
  <a>
    <b>
      <RECORD>
        <Blair PK="1">238-95-7766</Blair>
        <Test1 PK="1">1</Test1>
        <Test2 PK="1">2</Test2>
        <Test3 PK="1">3</Test3>
        <LastName>Carson</LastName>
        <FirstName>Cheryl</FirstName>
      </RECORD>
    </b>
  </a>
</RECORDS>
```

Figure 9(a)

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```
</data>
<data name="source2">
  <RECORDS>
    <RECORD>
      <Blair PK="1">aaaaaa</Blair>
      <Test1 PK="1">1</Test1>
      <Test2 PK="1">2</Test2>
      <Test3 PK="1">3</Test3>
      <LastName>White</LastName>
      <FirstName>Johnson</FirstName>
    </RECORD>
    <RECORD>
      <Blair PK="1">bbbbbb</Blair>
      <Test1 PK="1">1</Test1>
      <Test2 PK="1">2</Test2>
      <Test3 PK="1">3</Test3>
      <LastName>Green</LastName>
      <FirstName>Marjorie</FirstName>
    </RECORD>
    <RECORD>
      <Blair PK="1">cccccc</Blair>
      <Test1 PK="1">1</Test1>
      <Test2 PK="1">2</Test2>
      <Test3 PK="1">3</Test3>
      <LastName>Carson</LastName>
      <FirstName>Cheryl</FirstName>
    </RECORD>
  </a>
  <RECORD>
    <Blair PK="1">dddddd</Blair>
    <Test1 PK="1">1</Test1>
    <Test2 PK="1">2</Test2>
    <Test3 PK="1">3</Test3>
    <LastName>Carson</LastName>
    <FirstName>Cheryl</FirstName>
  </RECORD>
</a>
<a>
  <b>
    <RECORD>
      <Blair PK="1">eeeeeee</Blair>
      <Test1 PK="1">1</Test1>
      <Test2 PK="1">2</Test2>
      <Test3 PK="1">3</Test3>
      <LastName>Carson</LastName>
      <FirstName>Cheryl</FirstName>
    </RECORD>
  </b>
</a>
</RECORDS>
</data>
</dataresults>
```

Figure 9(b)

103260"0565260

```
<actions>
  <action formatstring="" actionid="OK" querystring="?
    _SQRSIGN=A&_SQAPPID={B77444A1-8D9E-4248-A664-
    6C483F8B4540}&_ACTIONID=OK&_SQFORMID={8D7B4336-6341-
    4D2C-B2D8-49FE88D1B13A}&EmployeeID=$EmployeeID" />
</actions>
<dictionary>
  <variable />
  <variable />
</dictionary>
</rml>
```

Figure 9(c)

```

<xsl:stylesheet xmlns:xsl="http://www.w3.org/TR/WD-xsl">
  <xsl:template match="/">
    <wml>
      <head>
        <meta name="FormType" content="SQSelectForm" />
        <meta name="ListMethod" content="numeric" />
      </head>
      <card>
        <xsl:attribute name="title">qwe</xsl:attribute>
        <p>
          <select>
            <xsl:attribute name="title">qwe</xsl:attribute>
            <xsl:attribute name="name">asd</xsl:attribute>
            <xsl:for-each select="/rml/dataresults/data
              [@name='source2']//RECORD">
              <option>
                <xsl:attribute name="value">
                  <xsl:value-of select="Blair" />
                  z1z
                  <xsl:value-of select="Test1" />
                  z1z
                  <xsl:value-of select="Test2" />
                  z1z
                  <xsl:value-of select="Test3" />
                </xsl:attribute>
                <xsl:attribute name="title">
                  <xsl:value-of select="LastName" />
                  ,
                  <xsl:value-of select="FirstName" />
                  ,
                  <xsl:value-of select="/rml/data
                    [@name='source1']/RECORDS/RECORD/Blair" />
                </xsl:attribute>
                blah blah blah
              </option>
            </xsl:for-each>
          </select>
        </p>
        <xsl:for-each select="/rml/actions//action">
          <do>
            <xsl:attribute name="type">accept</xsl:attribute>
            <xsl:attribute name="label">
              <xsl:value-of select="@actionid" />
            </xsl:attribute>
            <go>
              <xsl:attribute name="href">
                <xsl:value-of select="@querystring" />
              </xsl:attribute>
            </go>
          </do>
        </xsl:for-each>
      </card>
    </wml>
  </template>
</xsl:stylesheet>

```

Figure 10(a)

</wml>  
</xsl:template>  
</xsl:stylesheet>

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Figure 10(b)

FD-350 (Rev. 11-20-83)

```
<wml>
<head>
  <meta name="FormType" content="SQSelectForm" />
  <meta name="ListMethod" content="numeric" />
</head>
<card title="Select Account">
  <p>
    <select title="Select Account" name="HoldingsAccountID">
      <option value="1" title="Acct 10314">Acct 10314</option>
      <option value="2" title="Acct 11345">Acct 11345</option>
    </select>
    <br />
  </p>
  <do type="accept" label="OK">
    <go href="?"_SQRSIGN=A&_SQAPPID={8D3608DF-E570-45E9-BEC1-
      4E5DD949C5C0}&_ACTIONID=OK&_SQFORMID={BCC091A1-63D4-
      11D3-9E34-0090273EFC3B}
      &HoldingsAccountID=${HoldingsAccountID}
      &UserID=246531&Session=1" />
  </do>
</card>
</wml>
```

Figure 11

Figure 12

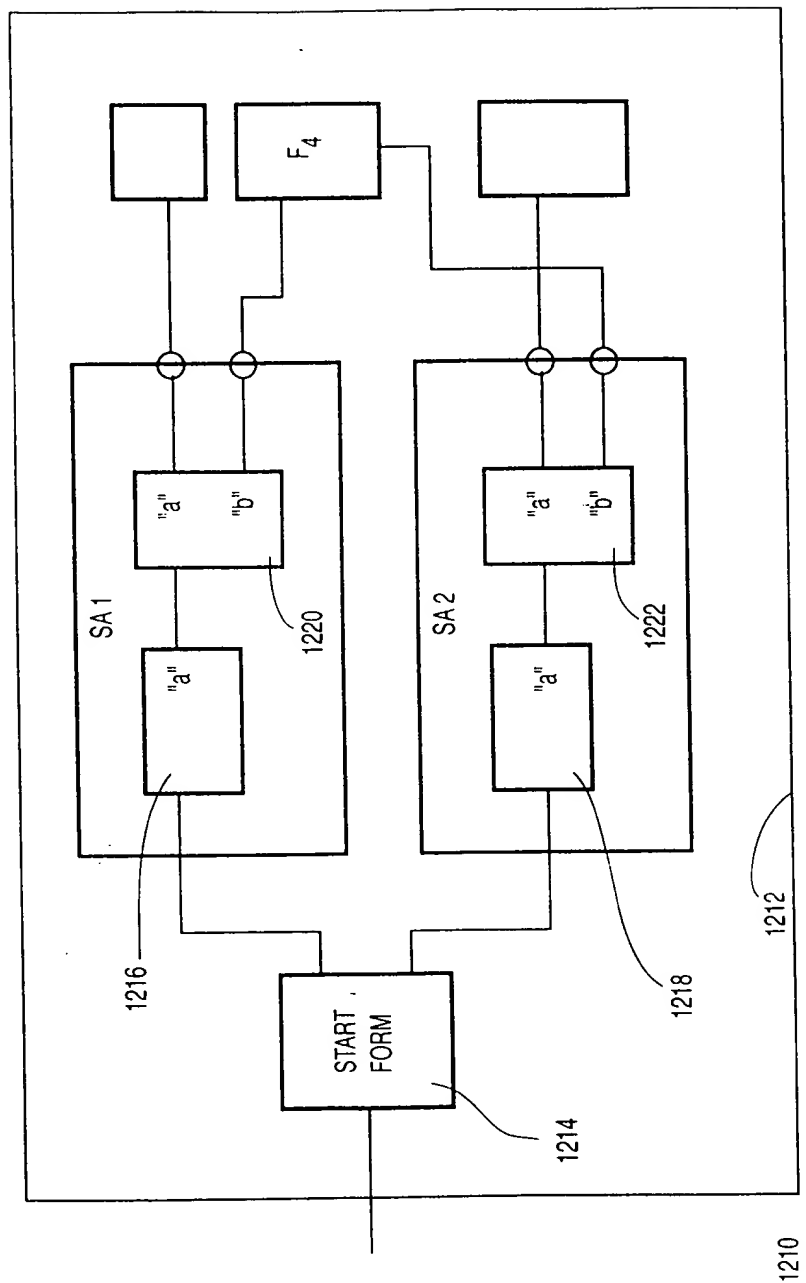


Figure 13

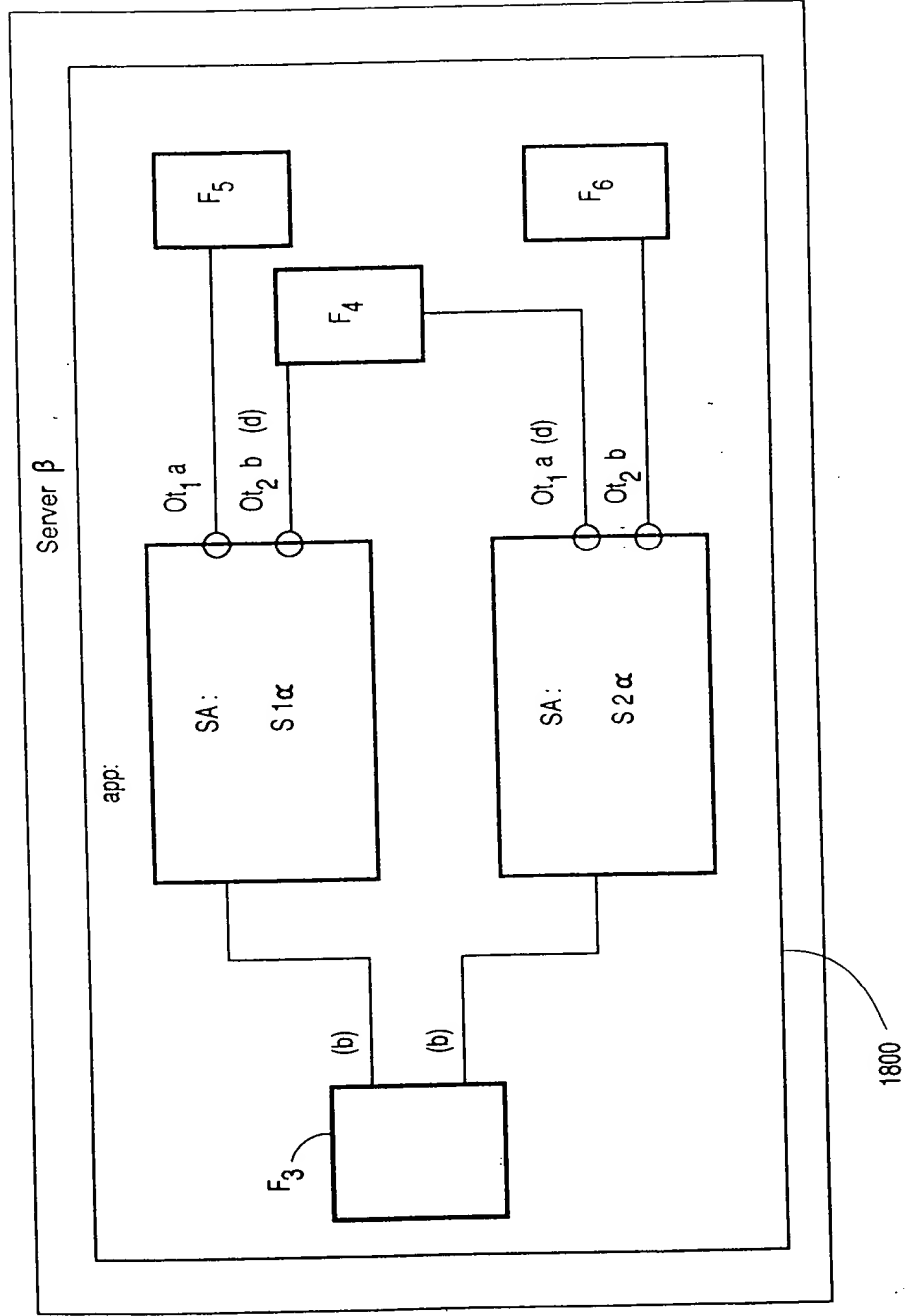
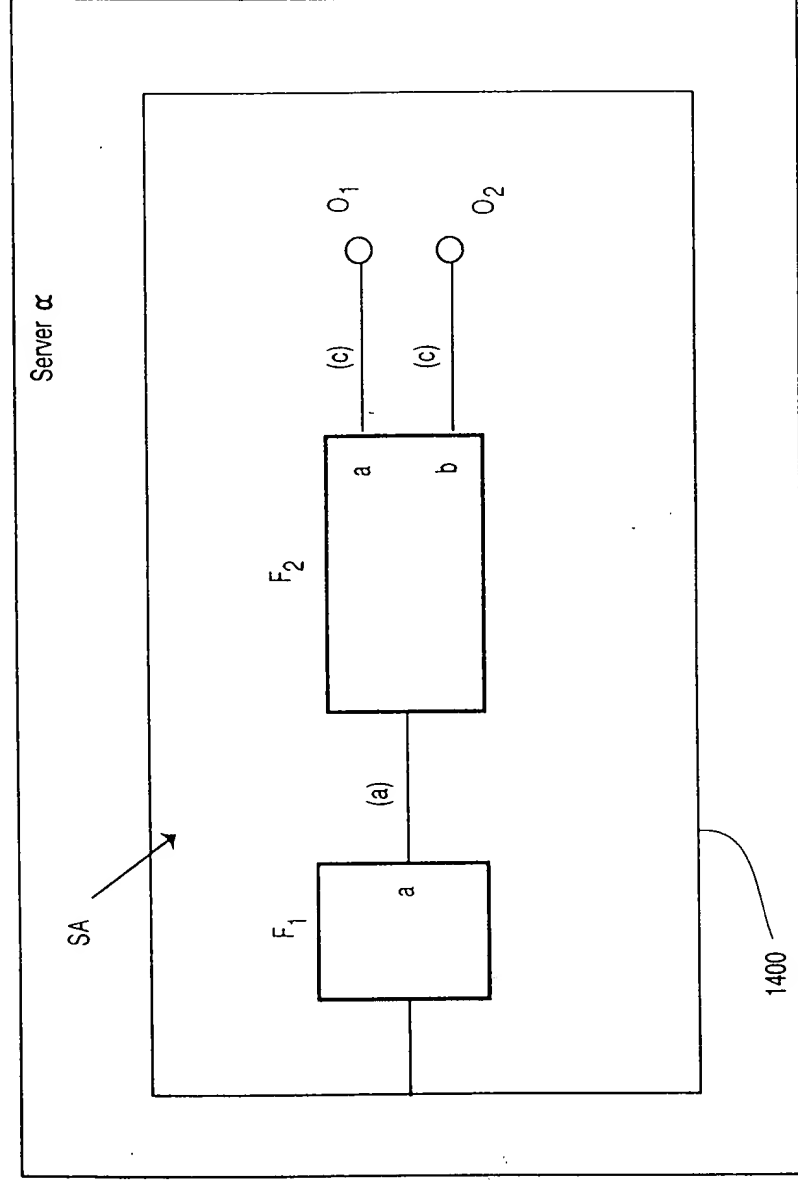


Figure 14



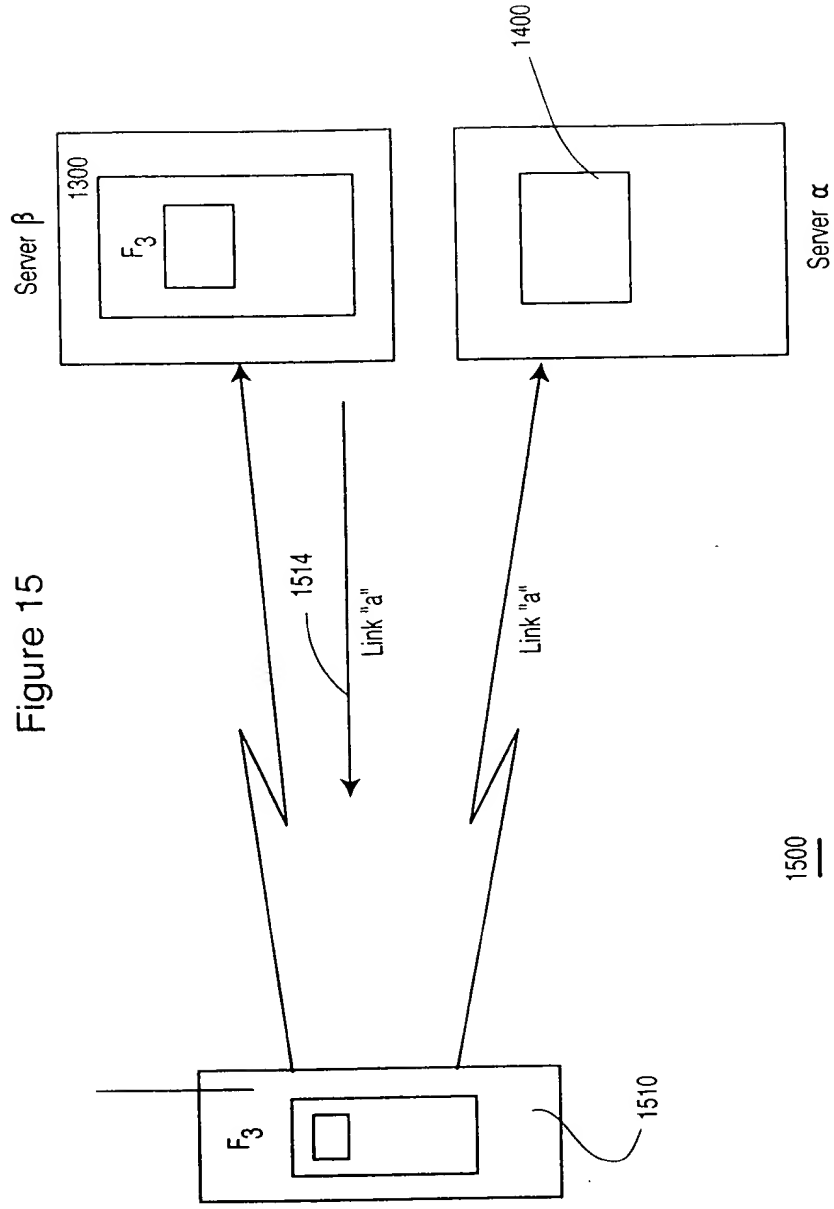




Figure 16 b

Element Types		Text	Elem	Data	Content Model	Attributes
<ul style="list-style-type: none"> <li>application</li> <li>outtarget</li> <li>sessionvariables</li> <li>variable</li> </ul>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(description, outtargets, startform, subapps?, err (variable*) (variable)*)	securevariable targetid name
		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		default required



Receive request:

- Determine request signature
  - app
  - targetid
  - language
  - markup
- Add to Runtime XML (RML)
  - Request signature
  - Dictionary element containing the Name/value pairs from request
- Load app
- Pass RML to app
- Process app
  - Find targetid?
    - Subapp
      - Load subapp
      - Pass RML to app
      - Process app
    - Form
      - Generate Action urls and add them to the RML
        - If no cookies
          - Include all variables
          - Remap to new names as described in HAML
      - Find a StyleSheet that matches the language and markup requested
      - Process Stylesheet
- If cookies are on and the device supports cookies
  - Build cookie creation instructions for:
    - Out variables in the RML
      - Remap to new names as described in HAML
    - Session variables in the RML
      - Remap to new names as described in HAML
- Return generated markup

Figure 17